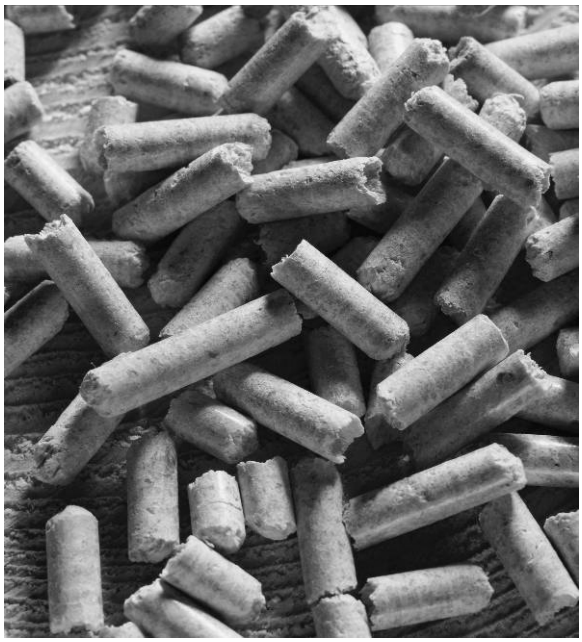

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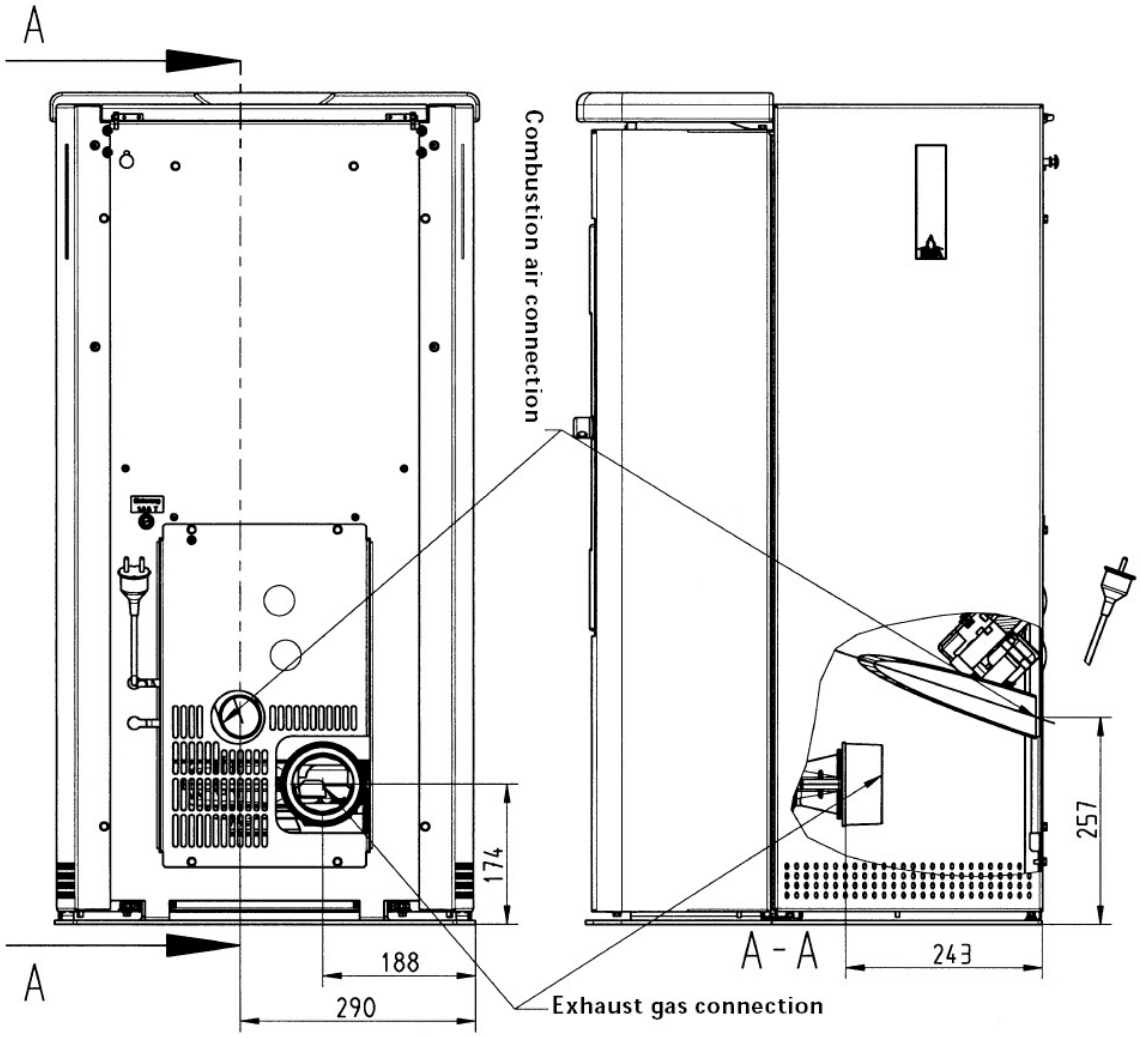
Instruction Manual

RIKA®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A
Combustion air connection
174
188
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A - A
257
243
Exhaust gas connection

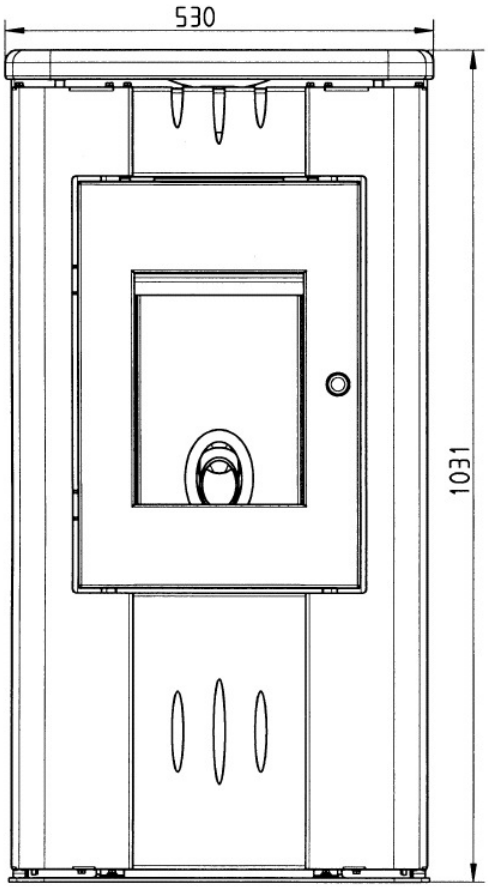
530
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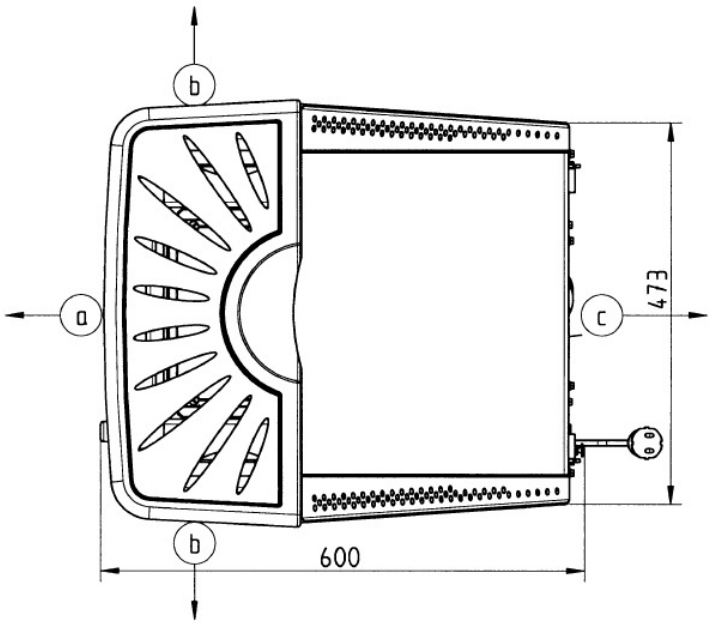
Fig. 1


b
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b
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Fig. 2

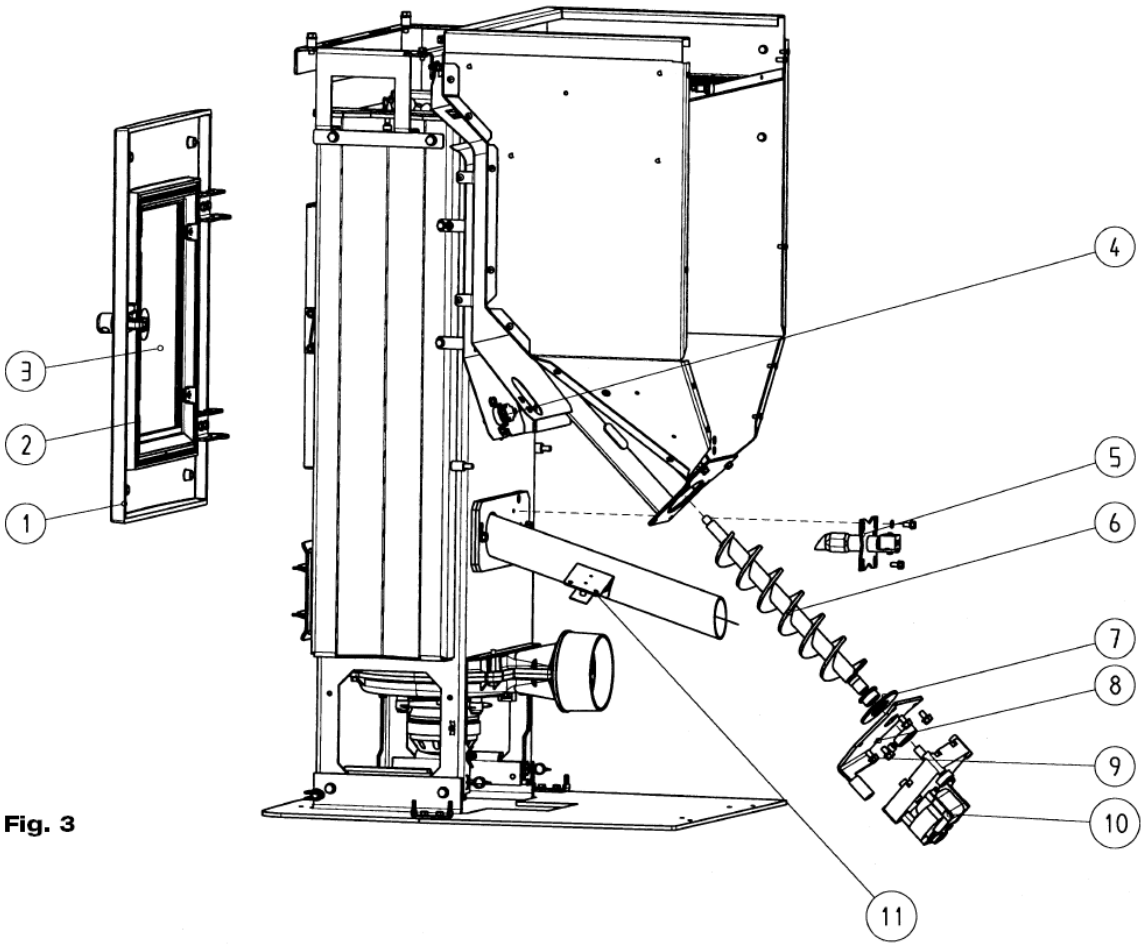


Fig. 3

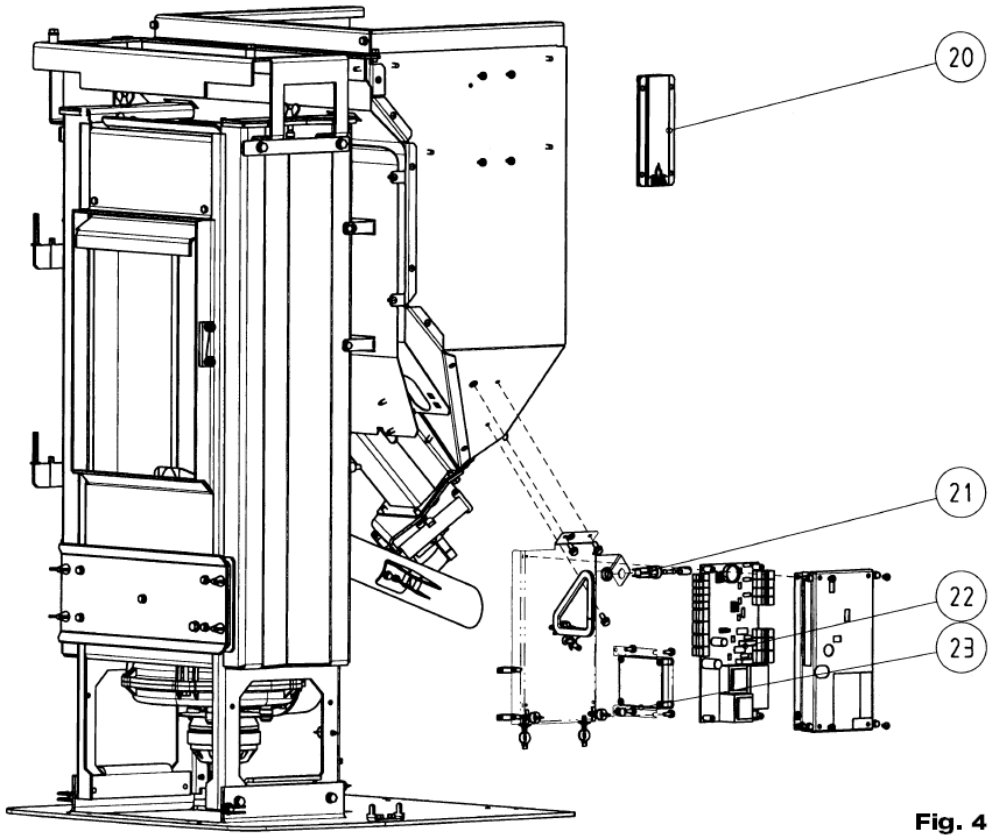


Fig. 4

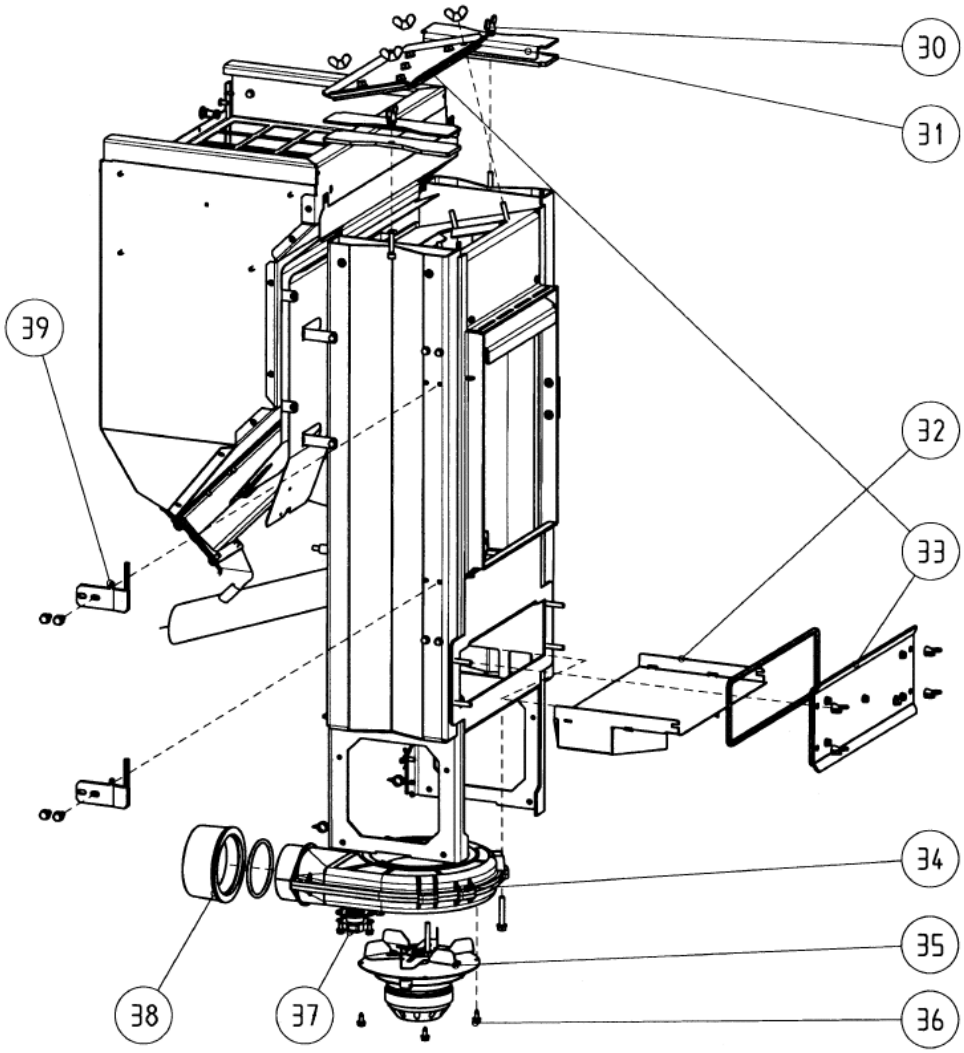


Fig. 5

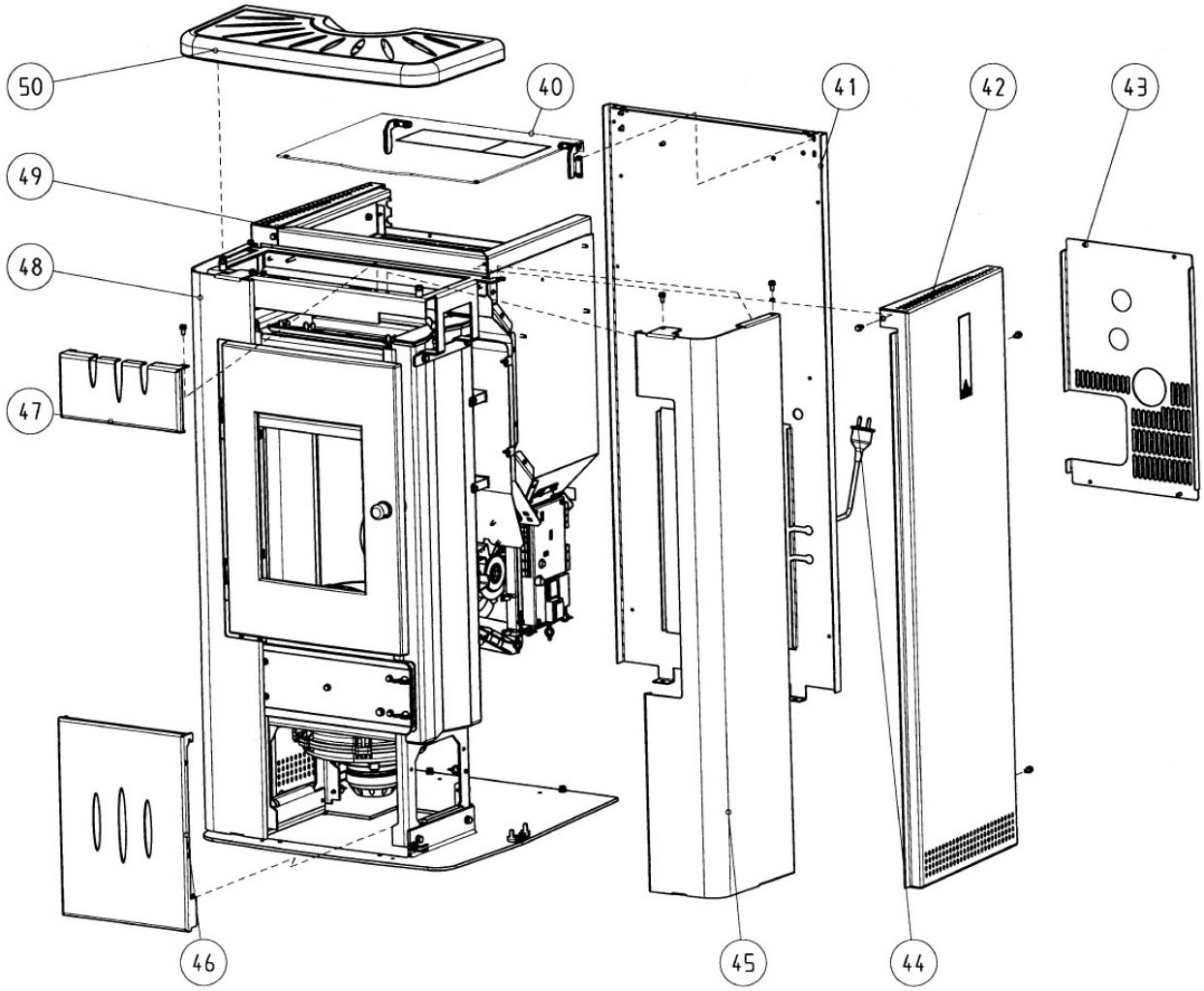
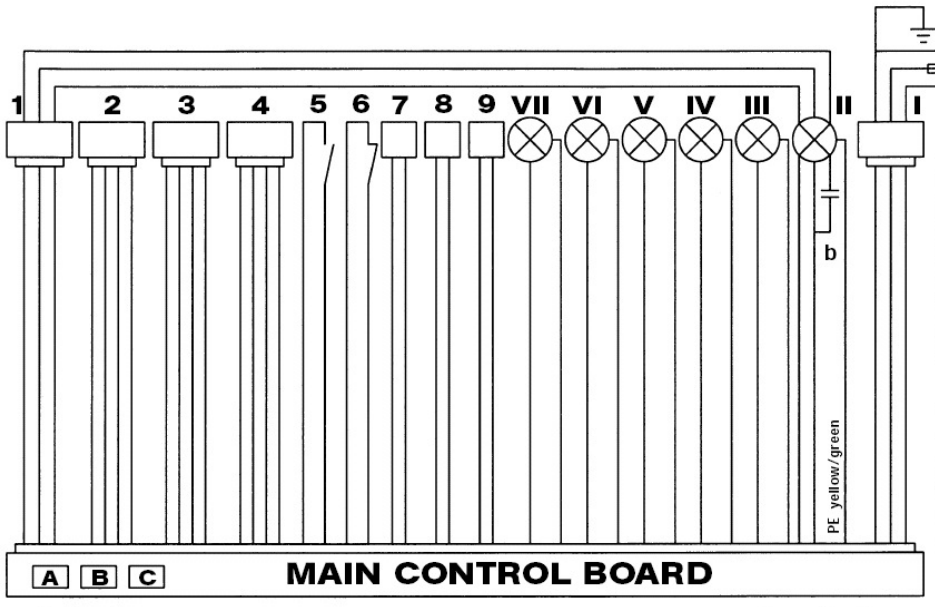


Fig. 6



1 HAL-RG-Fan
2 Control board
3 Remote-fixed network
4 Air sensor
5 UTB
6 OTB
7 FKY 1
8 FKY 2
9 Alarm

I Network 230VAC 50Hz
II RG-Fan
III Cross flow fan
IV Ignition element
V Auger motor
VI Circulating pump
VII Reserve

A Bus 1
B Bus 2
C Bus 3

a Fine-wire fuse
b Capacitor

Fig. 7

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Subject to technical and visual changes; setting and printing errors excepted.

EXPLANATION OF SYMBOLS

Important information

Practical advice

Use the plan

TECHNICAL SPECIFICATION

(Fig. 1)

TECHNICAL DATA		
Height	mm]	1031
Width	[mm]	530
Depth of the corpus	[mm]	576
Weight without casing	[daN]	135
Weight with ceramic casing	[daN]	145
Smoke tube pipe diameter	[mm]	100
Heating performance range	[kW]	2,4 - 8
Room heating capacity (m3) dependent on house insulation	[m3]	50-210
Fuel consumption	[kg/h]	0,6-1,9
Pellet container capacity	[kg]	32
Power supply	[V]; [Hz]	230; 50
Average electrical power consumption	[W]	ca. 100
Fuse	[A]	1,6 T

Efficiency	[%]	94,5
CO_2 content	[%]	10,7
CO emission re. 13% O	[mg/Nm3]	74
Dust emissions	[mg/Nm3]	22

Exhaust air mass flow	[g/s]	5,5
Exhaust air temperature	[°C]	100,3
Chimney draft requirement	[Pa]	0

The owner of the small heating system or the authorised person for the small heating system must keep the technical documentation in a safe place and present it to the local authority or the chimney sweep if required.

SPARE PARTS - OVE RVIEW

(Fig. 3 - Fig. 7)

DESCRIPTION

01 Fire door
02 Fire door seal
03 Fire door glass
04 Upper temperature limiter
05 Ignition element
06 Conveyorscrew complete
07 Centring plate
08 Motor plate
09 Hexagonal bolt
10 Conveyor screw drive motor
11 Air sensor
20 Internal control unit
21 Main fuse
22 Main board
23 Remote fixed network board (optional)
30 Wing nut
31 Flue gas shaft cleaning lid
32 Intermediate bottom
33 Top/bottom cleaning lid
34 Exhaust gas fan housing
35 Exhaust gas fan motor
36 Hexagonal screws
37 Low temperature switch
38 Smoke tube adapter 100 mm
39 Fire door hinge
40 Container lid (with rating plate, warning sign)
41 Rear wall
42 Side cladding rear right complete
43 Rear wall cover
44 Mains cable with earthed plug
45 Right panel
46 Front cladding bottom
47 Front cladding top
48 Left panel
49 Rear left panel complete
50 Lamination cover complete

1. PACKAGING

Your first impression is important to us!
The packaging for your new stove provides excellent protection against damage. However damage to the stove and accessories can occur during transport.

Therefore please check that your stove is undamaged and that all parts are there on receipt! Report any defects to your stove dealer immediately!
When unpacking make absolutely sure that the stone panelling is not damaged. It is very easy to scratch the material. Ceramic panelling is not covered under the guarantee.

- The packaging for your new stove generally has no effect on the environment. The box and the film (PE) can be safely taken to the local council waste disposal depot for recycling.

1. IMPORTANT INFORMATION

GENERAL WARNING AND SAFETY INSTRUCTIONS

The general introductory warning information must be followed.

● Read the whole of the manual thoroughly before commissioning the stove.

● Only approved transport aids with adequate load bearing capacity must be used for transporting your stove.

● Your stove is not suitable for use as a ladder or scaffold.

● Thermal energy is produced by burning fuel; this leads to the surface of the stove, the doors, the door and operating handles, the door glasses, the flue pipes and possibly the front wall of the stove becoming very hot. Avoid touching these parts without wearing the relevant protective clothing or using the relevant means (cold hand).

● Make children aware of the danger and keep them away from the stove when in use.

● Placing non heat resistant objects on the stove or nearby is prohibited.

● Do not lay washing on the stove to dry.

● Stands for drying items of clothing or suchlike must be set up at an adequate distance from the stove – fire hazard!

● Working with easily combustible and explosive materials in the same or adjoining room to the stove is prohibited when the stove is on.

• **ATTENTION!!**
In cause of safety reason please do not open the combustion chamber door during operation!

• **CAUTION when filling the storage container.** The opening of the pellet container is sufficient to ensure problem-free filling. Ensure that no pellets fall on the convection ribs and the hot stove body. This can otherwise lead to heavy smoke formation.

2. WHAT ARE PELLETS ?

Pellets are made from wooden waste, from sawmills and planing workshops, as well as from residue from forestry operations. These “starting products” are crushed, dried, and pressed into Pellet “Fuel” without any bonding agent.

SPECIFICATIONS FOR HIGH QUALITY PELLETS

Calorific Value:	5.3 kWh/kg
Density:	700 kg/m3
Water Content:	Max. 8% of the weight
Ash proportion:	Max. 1% of the weight
Diameter:	5 - 6.5mm
Length:	Max. 30mm
Contents:	100% wood untreated and without any bonding agents added (bark proportion max. 5%)
Packaging:	In sacks, made of environmentally neutral or biologically degradable plastic, or from paper (2-3 layers / similar to cement packaging)

Please ask your pellet stove dealer for tested fuel and a list of monitored fuel manufacturers. Using poor quality or prohibited pellet fuel will have a negative effect on the function of your pellet stove and can also lead to the warranty becoming null and void, as well as the product liability connected with this. Observe waste incineration legislation.
Burn only pellets that have been tested.

PELLET STORAGE

In order to guarantee problem free burning of the wooden pellets, it is necessary to store the fuel as dry as possible and free from impurities.

3. TECHNOLOGY

Your new pellet stove is technologically advanced as a result of years of tests in the laboratory and in practice. The practical advantages of your pellet stove are convincing:

OPERATING COMFORT – OPERATIONAL RELIABILITY

The electronic monitoring device together with a patented “air sensor” controls and regulates the interplay of flue gas fan, conveyor auger, convection fan (optional) and temperature.
This monitoring system guarantees an optimum combustion and operating mode.

Your operating outlay is reduced to the most necessary - this prevents operating faults whilst working in an optimum fashion at the same time.

HIGHEST EFFICIENCY - LOWEST EMISSIONS

A very large heat exchanger surface togetherwith optimum combustion air control leads to very good fuel usage. Finely metered pellet feed in an optimised burner pot made from high quality grey cast iron effects almost perfect combustion with very good exhaust gas values - and this is guaranteed in every operating phase.

4. AUTOMATIC SAFETY FUNCTION

POWER FAILURE

After a short power failure the operating functions that were set before the power failure are continued. ON mode (manual operation). The control switches to the ST (Start Phase) and the unit then re-runs in ON operation. TM mode (automatic operation). The control switches to the ST (Start Phase) and the unit then re-runs in TM operation. SB mode (operational readiness, standby operation). After two seconds the control re-runs in the SB operation.

On power failure a small amount of smoke may be emitted. This does not last for more than three to five minutes and does not represent a safety risks.

OVERHEATING

A temperature safety switch (STL) switches the stove off automatically if it overheats. After the stove has cooled down it returns to the regulating program.

Whether the heating operation is continued or not depends on the remaining embers in the fire pan. If re-ignition does not occur when the fuel supply recommences, then the out of operation program (cleaning , lag phase) is carried out. According to the pre-set mode the stove must be re-started.

CAUTION: If overheating has occurred then maintenance or cleaning work must be carried out.

LOW TEMPERATURE SWITCH OFF

If the stove cools down below a minimum temperature, then the stove will switch off. This switch off can also occur if pre-heating is too slow.

ELECTRIC EXCESS-CURRENT SHUT OFF

The device is protected against excess current by a main fuse (on the rear of the device), (see “Technical Specification”).

5. INSTALLING THE STOVE

GENERAL INFORMATION

The stove must be connected to a chimney that is approved for solid fuels. The chimney must have a diameter of at least 120 mm.
The flue system is based on negative pressure in the combustion chamber and a slight overpressure on the flue gas outlet. It is therefore important that the flue gas connection is fitted correctly and is airtight.

Only use heat resistant sealing materials, as well as the relevant sealing bands, heat resistant silicon and mineral wool.

Only authorised technical personnel must carry out assembly work.

In addition you must ensure that the flue tube does not project into the free cross section of the chimney.

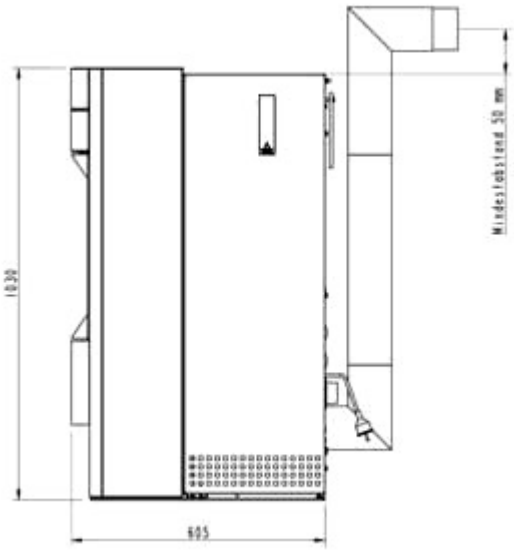
NOTE: Please follow the regionally valid building regulations. Contact your master chimney sweep for information on this.

Ensure that outlet routes to the chimney are not too long.

Avoid too many changes of direction for the flue gas flow to the chimney. (e.g. too many corners and bends).

Where you cannot connect directly to the chimney, if possible use a connection piece with cleaning opening.

For optimum efficiency please use the type of connector we recommend.



MAKING THE CHIMNEY CONNECTION

(Fig. 1)

Method

1. Measure and draw the chimney connection (taking any floor plate thickness into consideration). (Fig. 1)
2. Chisel out (drill) the hole in the wall
3. Brick in the wall lining
4. Connect stove with the flue tube to the chimney.

FLOOR PROTECTION

For flammable floor surfaces (wood, carpet, etc.) a glass, steel plate or ceramic underlay is required.

SAFETY DISTANCES

(Fig. 2)

(Measured from the outside of the stove)

From non-combustible objects		
a > 400 mm	**b > 100 mm**	**c > 100 mm**
From combustible objects and to load-bearing walls in reinforced concrete		
a > 800 mm	**b > 200 mm**	**c > 200 mm**

ELECTRICAL CONNECTION

The stove is supplied with an approx. 2.5 m long connecting cable with a plug. The cable must be connected to a 230 V, 50 Hz electrical supply. The average electric power consumption is approx 100 watts during heating. During the automatic ignition process (duration 10 minutes) approx. 350 watts. The connection cable must be laid so that any contact with hot or sharpedged external surfaces on the stove is avoided.

COMBUSTION AIR

Each combustion procedure requires oxygen or air. As a rule this combustion air is removed from the living area for individual stoves The air taken from the living area must be reintroduced. In modern houses, very tight fitting windows and doors mean that too little air flows back. This situation becomes problematic due to additional ventilation in the house (e.g. in the kitchen or WC).

The suctioning in of combustion air is performed via the flue gas blower. The resulting combustion air and suctioning noises are normal operational noises that may occur at varying volumes depending on the chimney draught, output level or a dirty combustion trough – NOT A CAUSE FOR COMPLAINT!

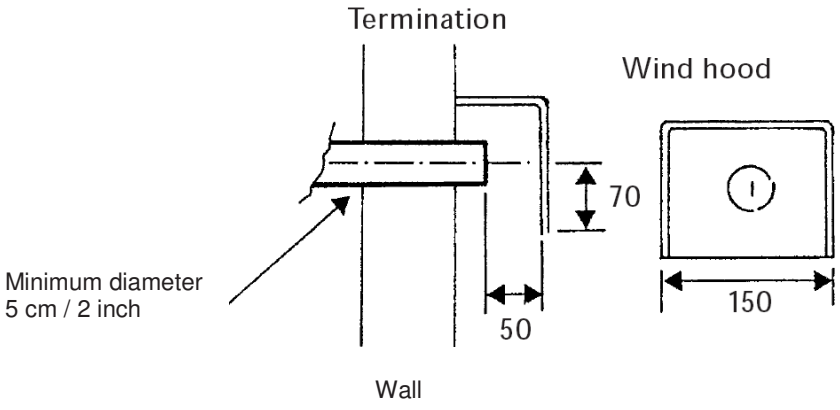
Feed of external combustion air

- Steel, HT or flexible aluminium pipes must be used.
- Minimum diameter 5 cm/2 inches.
- For longer connection runs the diameter must be increased to approx. 10 cm after approx. 1 m.
- The pipe should not be longer than approx. 4m in total to guarantee adequate air feed and not have too many bends.
- Should the line lead into the open air, it must end with a vertical 90° downward elbow or with a wind guard.

Should one or more of these conditions NOT be applicable then usually poor combustion will occur in the stove, as well as air underpressure in the apartment.

We recommend that a ventilating grille be fitted in a window near the stove for permanent ventilation. Further it is possible to extract the combustion air directly from outside or from another room that is well ventilated (e.g. the cellar).

Please observe:
Your pellet stove works independent of the room air. Negative pressures in the set-up room are not permissible. Therefore the use of a safety device (e.g. differential pressure controller) in combination with room air facilities (e.g. ventilation system, exhaust extraction etc.) is stipulated.



6. ASSEMBLY, PANELLING, OPTIONS

GENERAL

CAUTION: Only work on the stove when the mains plug has been removed from the socket.

During assembly do not drop any items (screws) etc. into the fuel container - they can block the conveyor auger and damage the stove.

Your stove must be switched off and have cooled down before work is carried out.

FITTING THE STEEL OR CERAMIC PANELS

(Fig. 6)

1. Remove the cover insert (Fig 7, 63) from the cast cover and remove the two hexagonal screws (Fig 7, 66). Now remove the cast cover from the pellet stove.

2. From above push the side panels (Fig 6, 44 and 49) into the holders (upper and lower) provided on the stove.

3. Check the position of the side panel in the lower area of the cast base. If re-positioning is necessary this can be done by appropriate adjustment of the hexagonal screw (Fig 6, part 48)

4. The side panel is then additionally secured with the hexagonal screw (Fig 6, part 50).

5. The procedure for both sides is the same.

6. Now position the cast cover on the pellet stove and secure it with the two Allen screws as per step 1. The cover insert can now be re-fitted.

ASSEMBLY OF CONVECTION FAN (OPTIONAL)

(Fig. 6)

Dismantle the rear side panels (Fig 6, 45.51) left and right by removing the hexagonal screws in the pellet container and at the back in the rear panel. Be careful of the cable to the internal operating unit.

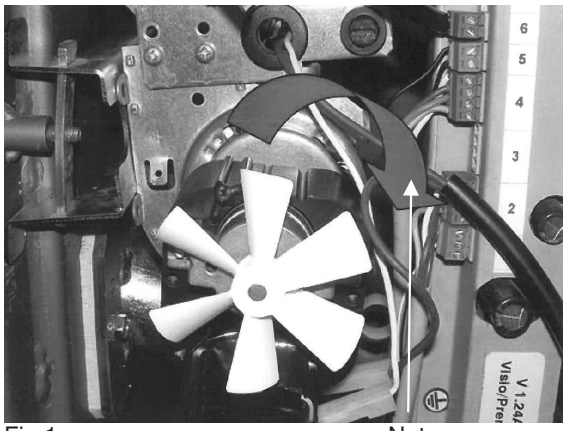


Fig 1 Nut

Attach the convection fan by screwing the two nuts supplied to the two bolts incorporated into the combustion chamber rear wall (Fig 1). Place a serrated washer under one of the nuts.

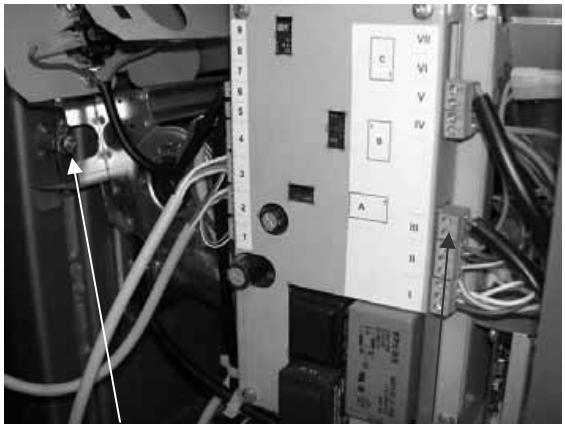


Fig 2 Nut Convection fan connector

Lay the mains cable in the holders on the control PCB housing and insert the two-pin plug into position III. Re-fit the rear side panels on the left and right side.

CAUTION! Installation of the convection fan must be carried out by an authorised dealer.

7. OPERATION

BASIC INFORMATION

The stove must only be started when fully fitted.

Your pellet stove is exclusively for burning pellets made from wood of a controlled quality. Non-pelletised solid fuels (straw, maize, chopped matter etc.) are not permitted. Failure to adhere to these guidelines will make all guarantee and warranty claims null and void and could have a negative effect on the safety of your stove.

When operated correctly your pellet stove cannot overheat. Improper operation can however shorten the life expectancy of the electric stove components (fan, motors and electric control) and is not permitted.

CONTROL AND INTERNAL CONTROL UNIT - FUNCTION

(Fig. 4, Part 20)

Your pellet stove is fitted with a modern programmable microprocessor control. The user can preset the individual stove functions via the internal control unit (keypad with operating display) fitted at the top of the right hand stove panel.

The control (main board) and the control board may only be altered by trained specialist dealers or the service department. Improper handling of these parts leads to the guarantee and warranty becoming null and void.

INTERNAL CONTROL UNIT

All settings and functions can be regulated via this unit.

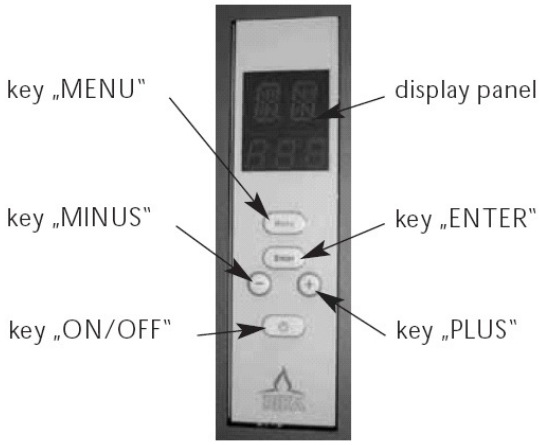


Fig 1. Internal operating unit, key layout

DISPLAY PANEL:
Display of operating state in illuminated text

MENU:
Navigation in and to the various sub-menu levels

ENTER:
Navigation in the main menus (SB, ON, TM) and confirmation of use inputs

MINUS/PLUS:
Decrease and increase of user values

ON/OFF:
Switching unit on and off

For a graphical representation of the menu navigation of the program levels see Appendix, page 29

8. DEVICE COMMISSIONING / CONTROL PROGR AMMING / CONTROLOTIONS

GENERAL

● Check that the pellet container is full and the combustion chamber is clean and contamination free.

CAUTION: During the ignition process the grate door must be closed. The electronic ignition does not work if the grate door is open.

When the pellet container of the stove is filled for the first time, no pellets are conveyed to the fire tray for about 10 minutes. You can put a handful of pellets in the fire pan to avoid a new start process.

FIRST COMMISSIONING/ PROGRAMME SETTINGS

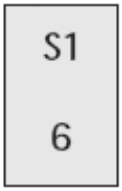
After filling the supply container and connecting the stove to the mains electrical supply, press the ON/OFF key on the internal operating unit and SB (Standby) is displayed.

"SB" = standby operation

Now program your control for your individual requirements as follows: (See page 29 for menu navigation). Two heating intervals can be programmed for each weekday. No heating times are programmed in the factory. Press "MENU" on the operating unit and the display shows the following:

"MO" = Monday

Now press "ENTER" and the display shows:

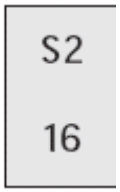


"S1" = start first heating time, 6 the number is the time in hours (0 to 23 hours) e.g. see window 6 Hour.

By pressing the "+" or "-" keys the heating time can be changed in hourly steps as required. The desired value is confirmed with "ENTER" and is then saved. The display shows

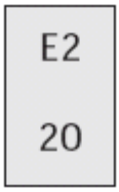
"E1" = end of first heating time,

By pressing the "+" or "-" keys the heating time can be changed in hourly steps as required. The desired value is confirmed with "ENTER" and is then saved. The display shows



"S2" = start of second heating time,

After entering the second heating time and confirming with "ENTER" the display shows



"E2" = end of second heating time,

After entering the switch off point of the second heating time and confirming with "ENTER" the new valued is saved and the display now shows:

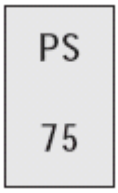
On selecting the “MENU” key the display shows the following weekday:

“TU” = Tuesday,

Press the “ENTER” key to return to the starting point of the first heating time for Tuesday.

Proceed to enter the rest of the heating times for the weekdays (Wednesday “WE”, Thursday “TH”, Friday “FR”, Saturday “SA”, Sunday “SU” as described above.

After acknowledgement with “ENTER” of the E2 value of Sunday (SU) and selection of “MENU” the display shows:



“PS” (Power Start) = heating output during the programmed heating times (S1-E2, S2-E2).

The number corresponds to the heating output in percent (0% equals minimum heating output, 100% equals maximum heating output).

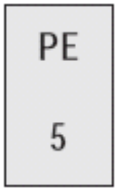
By pressing the “+” or “-” keys you can change the value of the heating output in 5% steps as required. The value is confirmed with “ENTER” and the display shows

“PE” (Power End) = heating output between the programmed heating times (E1-S2).

“OFF” indicates that the stove is switched off between the programmed heating times.

The value “OFF” is achieved by pressing the “-” key until “OFF” is displayed.

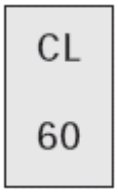
If you want to maintain a specific heating output (low operation) between the programmed heating times you can set the required value by pressing the “+” or “-” keys.



The number equals the heating output in percent (e.g. see window 5%).

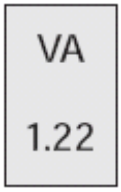
Press the “ENTER” key to save the PE value, the display shows:

To improve combustion quality, automatic cleaning of the fire pan is programmed into the control process



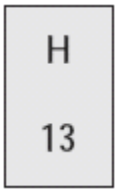
“CL” = Clean
the number indicates the time interval in minutes (e.g. see window 60 Minutes).

By pressing the “+” or “-” keys you can determine the desired time interval in 5 minute steps (The cleaning interval can be extended to 300 minutes, however we recommend a cleaning cycle of 60 minutes). Confirm with “ENTER” and the display shows:



This is the current software version of the control and is used for customer service reasons (display only).

Now use “MENU” to access the internal clock and the following display appears:



“H” = Hour the number indicates the hour (value range 0 to 23).

By pressing the “+” or “-” keys the current hour of the internal clock can be set. The desired value is confirmed with “ENTER” and is then saved. The display shows

“M” = Minutes, the number indicates the minutes (value range 0 to 59).

Set the minutes of the system clock to the correct value by pressing the “+” or “-” keys and confirm with “ENTER”. The value is then saved and the display shows:

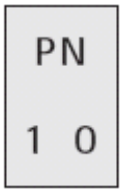
“D” = Day, the number indicates the weekday, e.g. see window 3 = Wednesday.

Set the current weekday (1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5 = Friday, 6 = Saturday, 7 = Sunday) by pressing the “+” or “-” keys and confirm the new value by pressing “ENTER”. The value is then saved and on pressing “MENU” the display shows:

a) if the optional Tele-control is installed

“RI” = Rings
The number of ring tones can be set from 1 to 10.

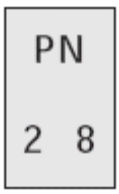
By pressing the “+” or “-” keys the number of rings can be changed. Press “ENTER” to confirm and the value is then saved and the display shows:



“PN1” = PIN 1
(Personal Identification Number).

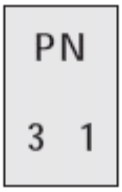
The number 0 (see window) represents the first digit of the PIN code (0 - 9 possible):

Select the desired value by pressing the “+” or “-” keys and confirm with “ENTER”. The display then shows:



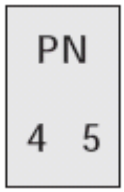
“PN2” = PIN 2
The number 8 (see window) represents the second digit of the PIN code:

Press the “+” or “-” keys to select the required value and confirm with “ENTER”, the display then shows:



“PN3” = PIN 3
The number 1 (see window) represents the third digit of the PIN code:

Press the “+” or “-” keys to select the required value and confirm with “ENTER”, the display then shows:



“PN4” = PIN 4
The number 5 (see window) represents the fourth digit of the PIN code:

Press the “+” or “-” keys to select the required value and confirm with “ENTER”. Then select “MENU” and you return to the main menu and the display shows:

b) if the optional Tele-control is installed

“SB” = Standby

Now the stove has been programmed according to your individual requirements you can set it to manual mode (ON mode) by a single press on the “ENTER” key or to automatic mode (TM mode) by double pressing the “ENTER” key

Ensure that when the stove is in ON mode the heating operation starts after 10 seconds. In automatic mode (TM) the heating process starts in accordance with the programmed heating times.

MAIN MENU – OPERATING RANGES

According to your requirements you can choose one of the following three operating types:

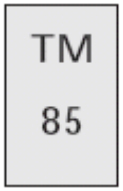
● **Standby mode**

"SB" = Standby Stove is switched off but remains active for control by Tele-Control (mobile).

● **Manual operation**

"ON" = Manual operation The number equals the heating output in percent (0% is minimum output and 100% is maximum heating output).

● **Automatic operation**

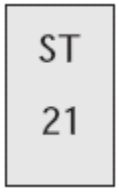


"TM" = Automatic operation(Time mode) The number equals the heating output in percent (0% is minimum output and 100% is maximum heating output.

You can switch between the various operating types by pressing "ENTER"

Start manual operation.

The following flashing indicators appear alternately on the display



"ST" indicates start
The number below indicates the remaining time for the start process in minutes.

On completion of the start phase the following appears continuously on the display

"ON" = Manual operation

If you want to change the current heating output then you can set the required heating output in 5% steps (from 0 to 100) by pressing the "+" or "-" keys.

Start automatic operation (TM mode)

When TM is selected on the display and the programmed heating time begins the control starts the heating operation.

The following flashing indications appear alternately on the display:

"TM" indicates automatic operation.

On completion of the start phase the following appears continuously on the display

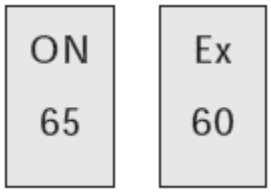
Generally the pre-programmed heating output (PS, PE) is adopted. If however youwant to change the current value, then this can be done by pressing the "+" or "-" keys in 5% steps. The changed value appears on the display. The program adopts the new value for the control until the completion of the current heating window. On starting the following heating time the programmed value is re-used. A permanent change of heating output can only be achieved by programming PS and PE.

Note:
The pre-heating program runs automatically and can be stopped by changing ("ENTER" key) the operating state to "SB". In this case the out of operation mode (alternating indication "Ex", see below) runs through to the end. If the stove is disconnected from the mains supply (i.e. power cut) during the start phase and then re-connected to the mains supply, the start phases starts from the beginning again.

PLACE STOVE OUT OF OPERATION

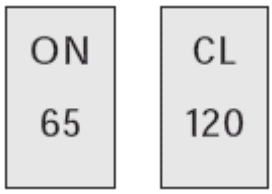
Switching off from "Manual operation" (ON)

If the "ON/OFF" key is pressed during operation then the switch off program is activated. The following alternating flashing indictors appear on the display:



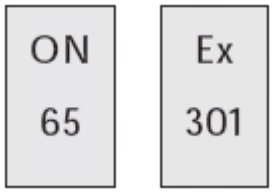
"Ex" Exit phase 1
The number below is the remaining time in seconds for this phase.

On completion of Exit phase 1 the display shows (flashing):



"CL" Cleaning phase
The number below is the remaining time in seconds for this phase.

On completion of Exit phase 1 the display shows (flashing):



"Ex" Exit phase 2
The number below is the remaining time in seconds for this phase.

Note:
The full switching off process lasts for about 8 minutes and cannot be interrupted by the user. On confirmation of "ON/OFF" the switch off program is initialised.

On completion of the switch off program the display goes off. When the “ON/OFF key is pressed a re-start follows.

SWITCHING OFF STOVE AUTOMATIC OPERATION

Heating time controlled automatic stop

If during automatic operation the “PE” output is switched to OFF, then the stove will be switched off at the end of a heating time as per the above-described functions. The difference to manual switch off is that TM is displayed instead of ON.

On completion of the switch off process the following is displayed:

“TM” = Automatic operation (Time mode) OFF switches off heating operation.

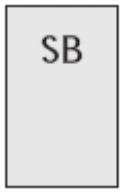
A pre-programmed heating time re-sets the stove automatically in operation andthe user can manually change to the ON mode (e.g. if currently a heating requirement outside the programmed heating times is required).

Manual automatic stop

If during automatic operation the “ON/OFF” key is pressed the stove goes immediately into switch off operation. The same indication as described previously is displayed. On completion of the exit program the display switches off and the stove can be re-switched to automatic mode by pressing the “ON/OFF” key.

SWITCHING OFF BY CHANGING OPERATINGMODE IN STANDBY

If you change to the Standby mode by pressing the “ENTER” key in “Manual operation” and in automatic operation, then switching off as described in the processabove will be carried out. On completion of the switching off program the following display appears:



“SB” = Standby

To re-start the stove a corresponding mode must be selected or the stove must be started with the optional Tele-Control (telephone start).

PELLET CONTROL (OPTIONAL) ROOM TEMPERATURE SENSOR

Using the external operating unit your pellet stove functionality can be extended by the room temperature control. This means that the room temperature is measured by a sensor in the external operating unit. The function is not part of the standard delivery and can be retro-fitted if desired. The corresponding extended functions of the stove and the programming of the system values are contained in the retro-fitting instructions.

TELE_CONTROL (TELEPHONE CONTROL OPTIONAL)

The function is not part of the standard delivery and can be retro-fitted if desired. The corresponding extended functions of the stove and the programming of the system values are contained in the retro-fitting instructions.

9. ELECTRIC IGNITION

The pellet furnace is fitted with an electric ignition.

This starts to function together with the stove start program.

Ignition duty cycle: Approx. 12 min.

PRE-HEATING WITHOUT ELECTRIC IGNITION

- **CAUTION: APPLIES ONLY TO STOVES WITHOUT ELECTRICAL IGNITION**
- **If your stove is fitted with electric ignition and this is faulty - please request a service or repair visit!**

If your pellet stove is not fitted with electric ignition proceed as follows:

1. Check that the pellet container is full and the combustion chamber is clean and free from impurities. Place approved firelighters in the fire pan and lay a small handful of pellets on top.

CAUTION: Do not use flammable liquids to preheat the stove!

2. Light the firelighters in the fire pan using a match and close the stove doors carefully. Press the "ON/OFF" button. This setting starts the start procedure.

SOME FIELD VALUES

Pellet consumption depends on the size of the pellets. The larger the pellets the slower the feed and vice versa.

30 kg of pellets should be sufficient for 16 hours of operation at a setting of "100%", and about 58 hours at a setting of "0%" (there may be variations caused by differences in pellet fuel).
If you have any questions please contact your authorised pellet stove dealer

FUEL FEED

CAUTION when filling the stove with pellets! Do not touch the hot stove with the pellet sack. Remove any pellets that have not been put in the storage container immediately (Smoke formation)!

To prevent the fire from going out due to lack of fuel, we recommend that an adequate pellet level is kept in the storage container. A 15 kg sack of pellets can be loaded into your pellet stove as soon as the pellet container is less than half full. Check the filling level often. The container lid should however always be kept closed unless the container is being filled.

Pellet container capacity (see technical specification).

10. CLEANING AND MAINTENANCE

BASIC INFORMATION

Your stove must be switched off and have cooled down before carrying out any maintenance activities.

CAUTION: Only carry out maintenance when the mains plug of the stove has been removed from the socket.

The frequency with which your stove must be cleaned as well as the maintenance intervals depends on the fuel you use.

High moisture contents, ash, dust and chips can more than double the necessary maintenance intervals. We would like to point out once again that you should only use tested and recommended wooden pellets as a fuel.

Operating handle

Your new pellet stove comes with an operating handle that is used for opening or closing the grate door. Please use this operating handle for:

- Cleaning the fire pan; Loosening the pellets in the pellet container should they stick to the side walls;

Wood as a fertiliser

Wood mineral residue (approx. 1 -2%) remains in the combustion chamber as ash. This ash is natural product and is an excellent fertiliser for all plants in the garden. However the ash should be aged first and “quenched” with water

CAUTION: Embers may be hidden in the ash – empty only into metal containers.

CLEANING THE FIRE PAN

(Fig 3)

CAUTION: Clean fire pan daily.
Make absolutely certain that ash or clinker does not block the air feed openings. The fire pan can easily be cleaned inside the stove. After removing the pan the area underneath can be vacuumed clean.

If the stove is heated in continuous operation, then it must be switched off twice within 24 hours in order to clean the pan. (danger of flash back)

Check that the pan is correctly seated.

Fig 3

CLEANING THE GRATE DOOR GLASS

The best way to clean the grate door glass is using a damp cloth. Stubborn dirt can be removed using a special cleaner that can be purchased from your specialist stove dealer.

CLEANING THE FLUES

The flue channels are situated in the side of the combustion chamber (Figs 4 and 6)

- Remove the cover insert (Fig 6,part 63) from the stove. Open the grate door.
- Remove the wing nut (Fig. 5, 30) and lift off the RG cleaning cover (Fig. 5, 31). Do this on the left and right of the stove.
- Clean the heating flues on the combustion chamber side using a soot brush. (Fig. 6).
- Remove the upper grate cover (Fig. 5, 33) by unscrewing the four wing nuts
- Vacuum impurities away from the uncovered inner area and the side openings.

- Refit the parts you removed in the ,reverse order.

Fig 4

Cleaning the flues

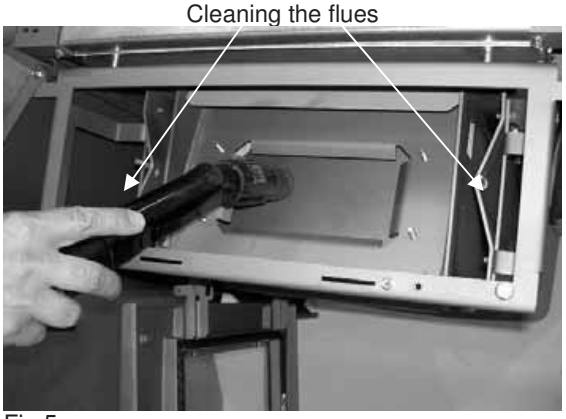


Fig 5

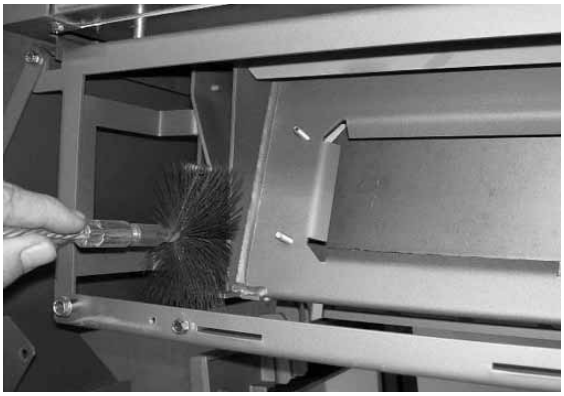


Fig 6

CLEANING THE FLUE MANIFOLD

The heating flue is located in the bottom of the combustion chamber (Fig. 7 to Fig. 10)

- After removing the front panels (see page 15, remove cast cover and dismantle front panel, Fig. 6, 47)
- Open the grate door
- Dismantle the bottom inspection opening Fig. 5, 33 (four wing nuts)
- Clean the inserted intermediate floor (Fig. 5, Part 33) (e.g. with vacuum cleaner) and then remove from combustion chamber
- Now vacuum the combustion residue from the manifold channel.
- Fit the parts in the reverse order again. Attention must be paid to a tight fit.

Fig 7

Fig 8

Fig 9

If cleaning cover seals are not functioning correctly your stove can suck in excess air, which can lead to incomplete combustion in the fire pan and cause pellets to accumulate right back to the down shaft (danger of flash back).

Fig 10

Caution: Do not damage the flue fan during cleaning.

CLEANING THE FLUE GAS FAN HOUSING

This maintenance procedure should be carried out in accordance with stove operation and the fuel used.
In order to inspect and clean the flue gas fan, remove the four hexagonal screws (Fig. 5, 36) and carefully pull the flue fan motor (Fig. 5, 35) out of the housing. Remove the flue dust from the fan and flue gas outlets using a vacuum cleaner (Fig. 11). When closing ensure there are no leaks.

Note: All motors have sealed ball bearings.
Lubrication is not required.
derlich.

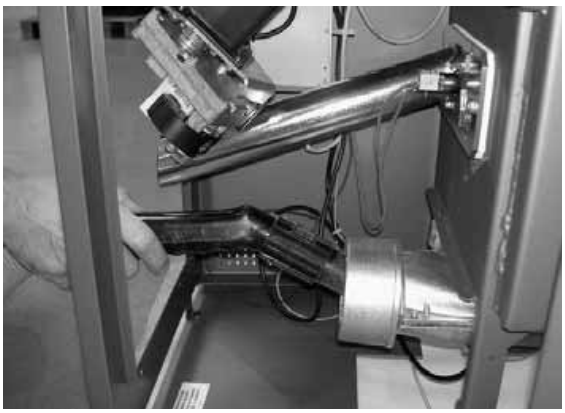


Fig 11

CLEANING THE PELLET CONTAINER

Do not fill the container up again immediately but remove residue (dust, chips etc.) from the empty container using a vacuum cleaner. (The stove must be disconnected from the power supply).

INSPECTING THE DOOR SEAL

The state of the seals on the doors and glass should be checked at least once per year. Repair or replace the seal dependent on the state.

CHECKING THE CHIMNEY CONNECTION

Inspect and clean the connection. The collected flue dust can have a negative effect on the stove performance and represent a safety risk.

CLEAN AIR SENSOR

(Fig 12)

The sensor must be serviced and cleaned by an authorised service technician. Clean with a soft brush. Ensure correct assembly (PCB must be below).

Air sensor

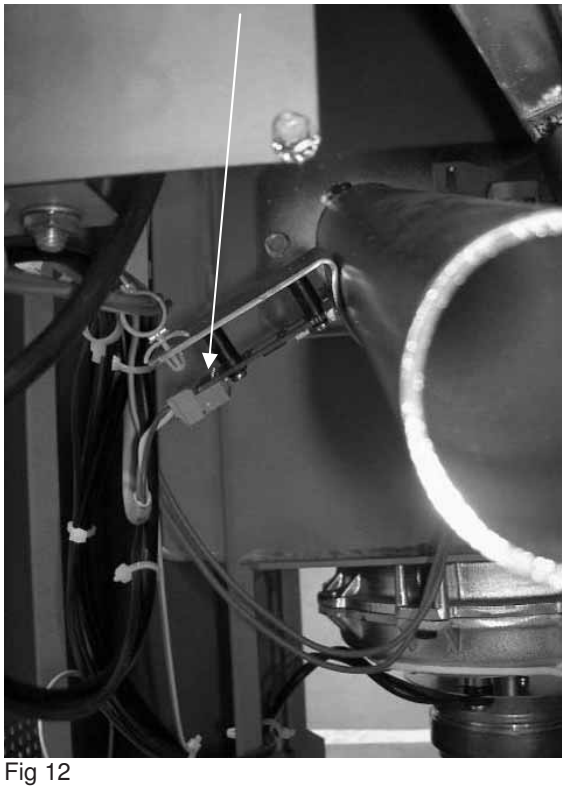


Fig 12

11. FAULTS - CAUSES - SOLUTIONS

PROBLEM

The fire is burning with a weak, orangecoloured flame. Pellets are building up in the fire pan, window is covered in soot.

CAUSE:

- Inadequate combustion air

POSSIBLE SOLUTIONS:

- Ensure that the fire pan sits in the fire pan holder correctly - the fire pan must fit tightly on the fire pan holder.
- Remove any ash or clinker that is blockin the air inlet openings, from the fire pan. If possible change to a better quality pellet.
- Check if the flue gas outlet is blocked with ash (see “Maintenance” page)
- Check if the air inlet channel or flue tube is blocked
- Check the door seal for leaks
- Clean the impeller.
- Have the stove serviced by an authorised specialist company (control adjustment, flue gas fan).

PROBLEM

Fire goes out or the stove switches off automatically

CAUSE(S):

- Pellet container is empty.
- Pellets were not fed in.
- Thermostatic switch (upper temperature limit) triggered.
- Door leaking or not closed tightly.
- Poor pellet quality
- Pellet feed rate too low
- Thermostatic switch (lower temperature limit) triggered.

POSSIBLE SOLUTIONS:

- Fill up pellet container
- See the following section “Pellets not fed in”
- Let the stove cool down for an hour and then re-start
- See “Routine maintenance”
- Only use a pellet quality recommended by us
- Have your specialist dealer set the fuel regulating device

PROBLEM

Pellets were not fed in.

CAUSE(S):

- Pellet container is empty.
- Conveyor drive or control PCB are faulty.
- Auger is blocked (objects, wood etc.)

POSSIBLE SOLUTIONS:

- Check the container content. Add more pellets if necessary.
- Have your specialist check the faults and change parts if necessary.
- Clean the pellet container and the conveyor auger.

PROBLEM

Stove runs for 21 minutes and then switches off.

CAUSE(S):

- The flue gas has not reached the required temperature.
- Lower temperature limiter may need to be replaced.
- The line to the lower or upper temperature limiter is faulty.
- Control is faulty.

POSSIBLE SOLUTIONS:

- Carry out a re-start if necessary.
- Have a service technician replace the lower temperature limiter and check the control.
- Check the cabling, see block diagram (Fig. 8) Check that there is a good connection between the lines and the ends (clamps).

Caution: Remove mains plug!

PROBLEM

Fan not running,

CAUSE(S):

- Stove has no power supply.

POSSIBLE SOLUTIONS:

- Check that the stove plug is connected to the power supply. Ensure that the correc mains voltage is available at the wall plug.

Caution: Remove mains plug!

PROBLEM

Soot or flue dust outside of the stove

CAUSE(S):

- Grate door open when stove is lit.
- Leaks in the flue system or flue lines.

POSSIBLE SOLUTIONS:

- Always keep the grate door closed and if possible only open when the stove is not operating.
- Rectify leaks in the extraction system (e.g. use heat resistant aluminium adhesive strip, heat resistant adhesive strip or heat resistant silicon).

CAUTION: checks must only be carried out on the control and cabling when no power is applied to the stove. Only trained personnel may carry out repairs.

CONTROL OF ERROR MESSAGES

If the stove does not stop according to the program (e.g. pellet container empty, over temperature triggered, lower temperature protection error message, air sensor fault, combustion fault (e.g. clogged combustion module, unsealed grate door, broken glass in grate door, etc) the error message “Err” (Error) appears on the display.

When an error message occurs the corresponding cause must be rectified, the stove can then be re-started by pressing “ON/OFF”.

12. APPENDIX

MENU NAVIGATION FOR PROGRAMMING OF THE INTERNAL CONTROL

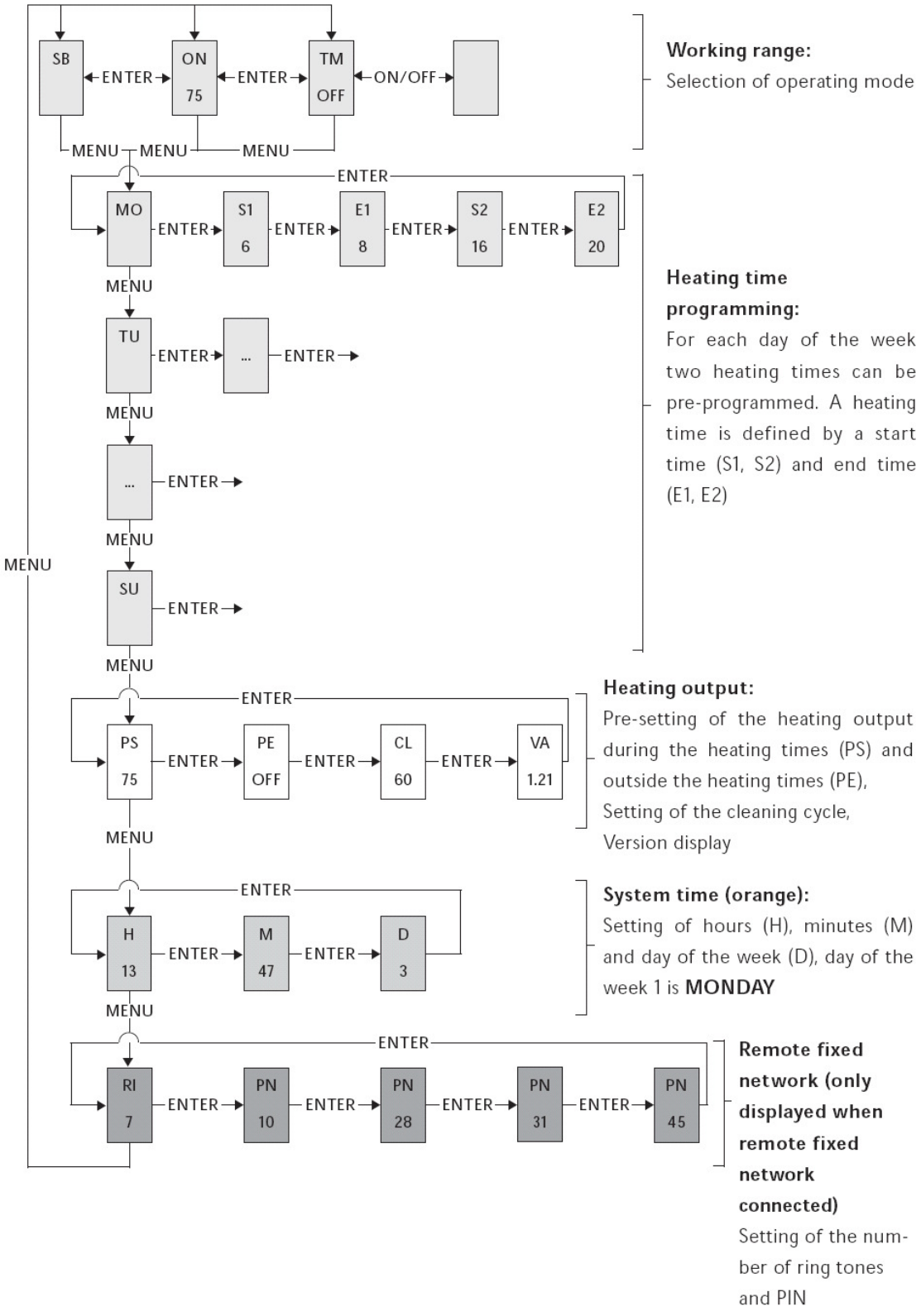


Fig 2: Menu navigation internal control

Stichwort/ Abkürzung	Name	Beschreibung
SB	Standby-Modus	Operating readiness mode (device switched off, but active for operation by Tele-Control)
ON	On-Modus	Manual operation
TM	Time-Modus	Automatic operation
MO, TU, WE, TH, FR, SA, SU	Weekdays	Monday to Sunday
S1, S2, E1, E2	Start 1, Start 2, End 1, End 2	Heating start times, heating end times for automatic operation (TM)
PS	Power-Start	Output value from heating time start in TM mode
PE	Power-End	Output value from heating time end in TM mode
CL	Clean	Cleaning operation
V	Version	Software version of controller
H, M, D	Hour, Minute, Day	Hour, Minute, Day memory for internal clock
RI	RING	Ring tone number memory
PN	PIN	User code memory
ST	Start	Pre-heating program function
EX	Exit	Exit program function
MENU	Menu-key	Navigation in and to the various sub-menu levels
ENTER	Enter-key	Navigation in the main menus (SB, ON, TM) and confirmation of user inputs.
+/-	Plus/ Minus-key	Increase or decrease user values
ON/OFF	Ein/ Aus-key	On/Off

13. EC DECLARATION OF CONFORMITY

CE

EC DECLARATION OF CONFORMITY

This declaration is submitted on behalf of the following manufacturer:

Company:	**RIKA Metallwarengesellschaft m.b.H. & CO KG**
Address:	**A-4563 Micheldorf**
Tel:/Fax:	**+43 (0)7582-686-0**
Name of signatory:	**Karl Riener**
Position in company:	**Director**

RIKA Metallwarengesellsch
m. b. H. & Co KG
A-4563 Micheldorf, Mühlviertel 2
Telefon: 07582/686-0, Fax: DW 43

Micheldorf. 27. 6. 2007
Place Date Legally binding signature

We declare that on the basis of the design and construction, as well as with respect to the functioning of models already in service, the following pellet stoves and central heating systems conform to the relevant and essential safety requirements.

Pellet stoves:	Central heating systems:
Integra	Evo Aqua
Memo	Modus Aqua
Premio	Tavo Aqua
Rio	Visio Aqua
Visio	

We confirm that the equipment conforms to the regulations, especially the safety requirements, laid down in the Directives of the European Community for Harmonization of the Regulations for Electromagnetic Compatibility (89/336/EWG), the Directive on Changes to CE Identification (93/68/EWG), as well as the Electromagnetic Compatibility of Equipment Act of 18/09/1998.

This declaration applies to all identical examples of the products that are manufactured according to our development, construction and manufacturing drawings and descriptions.
The conformity of the designated products with the provisions of the above mentioned directives is verified by observations of the standards mentioned in the appendix.
This declaration provides certification of conformity with the directives mentioned, but does not provide confirmation of the characteristics. The safety instructions in the product documentation provided must be observed. The appendices form part of the declaration.

In the assessment of the product with respect to electromagnetic compatibility the following relevant harmonized European standards, the details of which were published in the official gazette of the European Community, were consulted:

89/336/EG Electromagnetic compatibility (EMC Directive)
73/23/EG Electrical equipment with specific voltage limits (Low Voltage Directive)
89/392/EG Machines (Machinery Directive)
97/23/EG Pressure Equipment Directive
DIN 18894
E EN 14785
EN 55014-1
EN 55014-2/04.93 (Domestic area)
EN 55104/05.95
EN 61000-3-2/04.95
EN 61000-3-3/01.95
EN 61000-4-2/03.96
EN 61000-4-3 i.d.f. DIN V ENV 50140 T3/02.95
EN 61000-4-4/03.96
EN 61000-4-5/09.96
EN 61000-4-6 i.d.f. DIN V ENV 50141 T6/04.96
EN 61000-4-11(criterion B or C respectively)/04.95
DIN EN 60335/10.95
DIN EN 20165/1997
DIN VDE 0700 Part 1
DIN VDE 0700 Part 450
DIN 57100/VDE 0100
DIN 57106/VDE 0106
DIN 57298/VDE 0298
DIN/VDE 0722
DIN EN 292-1/2
DIN EN 292-2/2
DIN EN 303-5

ENGLISH

Warranty:
For possible questions about warranty or –requirements, please refer to your warranty- partner.
This is your dealer or your installer.
Without correct commissioning, as well as correct instigation according to service manual and the addition for this leaflet, the guarantee claims could not be accepted.

Installation certificate for Rika pellet air heating device Date:_____

Installation address	Dealer:
Name: _____	Name: _____
Street: _____	Street: _____
Town:_____	Town:_____
Tel: _____	Tel: _____

Device specification

Device type:		Panelling undamaged	
Serial number		Operating instructions	
Software version		Guarantee documents	
		Cleaning brush, door hook	

Electrical periphery

Connection plug earthed		GSM modem available	
Room thermostat available		Function checked	

Exhaust pipe/chimney

Diameter		Connections sealed	
Turns		Chimney draught	

Device functions

Pellet holder filled		Ignition element glows	
Pellet quality checked to Önorm/DIN plus		Augur motor runs	
Electrical connection made		Pellets fall into the combustion chamber	
Switch on key pressed once		Ignition follows after about 3-4 mins	
Suction draught fan runs			

User instructions

Device function		Guarantee conditions	
Control		Cleaning instructions	
Operating instructions		Cleaning period	

Work carried out correctly in accordance with contract

Commissioning technician: _____ _____ _____

Company: _____ Signature of customer Signature of technician

14. GUARANTEE

These warranty conditions apply to Austria, Germany and Switzerland.

For the purpose of timely damage limitation, the warranty claim on the part of the claimant is to be enforced at the RIKA dealer in writing using the invoice and stating the purchase date, model name, serial number and reason for complaint.

WARRANTY

5 years on the welded stove body. The warranty only covers defects in materials and workmanship as well as delivery of spare parts free of charge. Labour and travel times are not included in the manufacturer's warranty.

Only use spare parts recommended or supplied by the manufacturer. Loss of warranty on non-observance!

The precondition for the warranty is that the stove has been installed and commissioned properly according to the Instructions for Use valid at the time of purchase. Connection must be performed by a specialist for such stoves.

The warranty excludes WEARING PARTS such as glass, coating, surface coatings (e.g. handles, panels), seals, fire trough, grates, draught plates, deflector plates, combustion chamber liners (e.g. fireclay), ceramics, natural stone, ignition elements, sensors, combustion chamber sensors and temperature controller.

Damage arising from non-observance of the manufacturer's instructions for operation of the unit is also excluded (e.g. overheating, use of non-approved fuels, incorrect intervention in the stove, electrical excess voltage, a chimney draught set incorrectly for the stove, non-performance or deficient maintenance and cleaning, incorrect operation by the user or third parties, etc.) or caused by such.
Any costs incurred by the manufacturer due to unjustified warranty claims are to be charged to the claimant.

THE WARRANTY DOES NOT AFFECT THE STATUTORY WARRANTY PROVISIONS.

G U A R A N T E E / G A R A N T I E

Trader stamp/Cachet du revendeur:

Purchase day/Date d'achat:

Model designation/Nom du modéle:

Attached by/Raccordé par:

Numbers of the vehicle identification plate on the furnace back:
Nummëros de la plaque signalétique á l'arriére du poêle:

Serial no./N° de série:

G A R A N T I E / G A R A N Z I A

Händlerstempel/Timbro del rivenditore:

Kaufdatum/Data d'acquisto:

Modellname/Nome modello:

angeschlossen von/allacciato da:

Nummern des Typenschildes auf der Ofenrückseite:
Numeri della targa modello sul retro della stufa:

Serien Nr./Nr. serie:

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GUARANTEE/GARANTIE

Customer/Client:

Stamp
Marque

To/A:

GARANTIE/GARANZIA

Kunde/Cliente

Marke
Marca

An/A